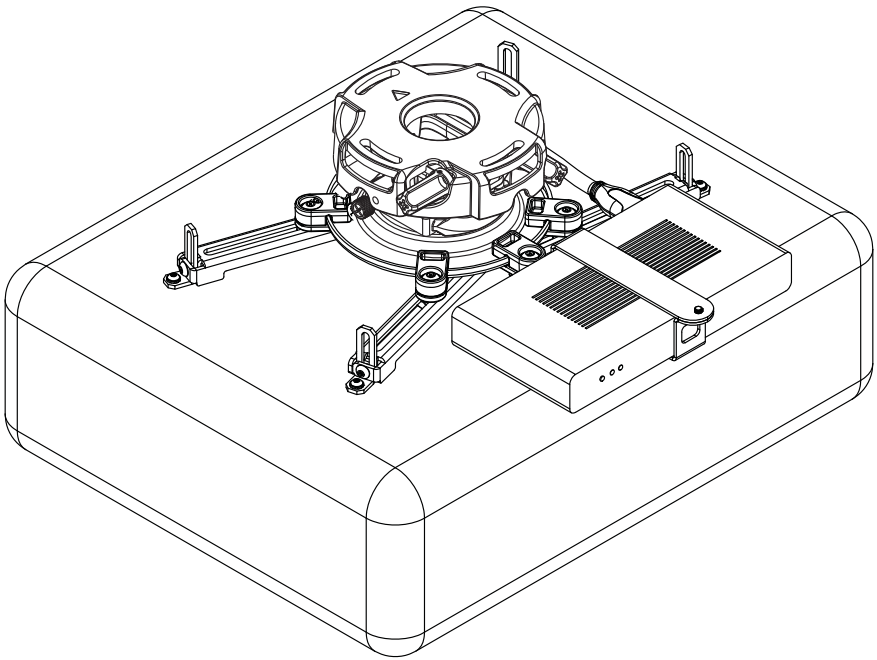
peerless-AV®

Installation and Assembly:

Wireless PRG Precision Gear Projector Mount

Model: WL-PRG-UNV-200



Features:

- ImageLock™ alignment prevents picture sag or drift
- Exclusive aluminum track quick release

Max Load Capacity: 50 lb (22.7 kg)

2300 White Oak Circle • Aurora, Il 60502 • (800) 865-2112 • Fax: (800)359-6500 • www.peerless-av.com

ISSUED: 08-24-12 SHEET #: 180-9035-2 10-30-12

NOTE: Read entire instruction sheet before you start installation and assembly.

⚠ WARNING

- Do not begin to install your Peerless product until you have read and understood the instructions and warnings contained in this Installation Sheet. If you have any questions regarding any of the instructions or warnings, for US customers please call Peerless customer care at 1-800-865-2112, for all international customers, please contact your local distributor.
- This product should only be installed by someone of good mechanical aptitude, has experience with basic building construction, and fully understands these instructions.
- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Never exceed the Maximum Load Capacity. See page one.
- If mounting to wood wall studs, make sure that mounting screws are anchored into the center of the studs. Use of an "edge to edge" stud finder is highly recommended.
- Always use an assistant or mechanical lifting equipment to safely lift and position equipment.
- Tighten screws firmly, but do not overtighten. Overtightening can damage the items, greatly reducing their holding power.
- This product is intended for indoor use only. Use of this product outdoors could lead to product failure and personal injury.
- This product was designed to be installed on the following wall construction only;

WALL CONSTRUCTION	HARDWARE REQUIRED
• Wood Stud	Included
• Wood Beam	Included
• Solid Concrete	Included
• Brick	Contact Qualified Professional
• Other or unsure?	Contact Qualified Professional

Tools Needed for Assembly

- stud finder ("edge to edge" stud finder is recommended)
- phillips screwdriver
- drill
- 5/16" bit for solid concrete surface
- 5/32" bit for wood studs
- open end wrench
- level

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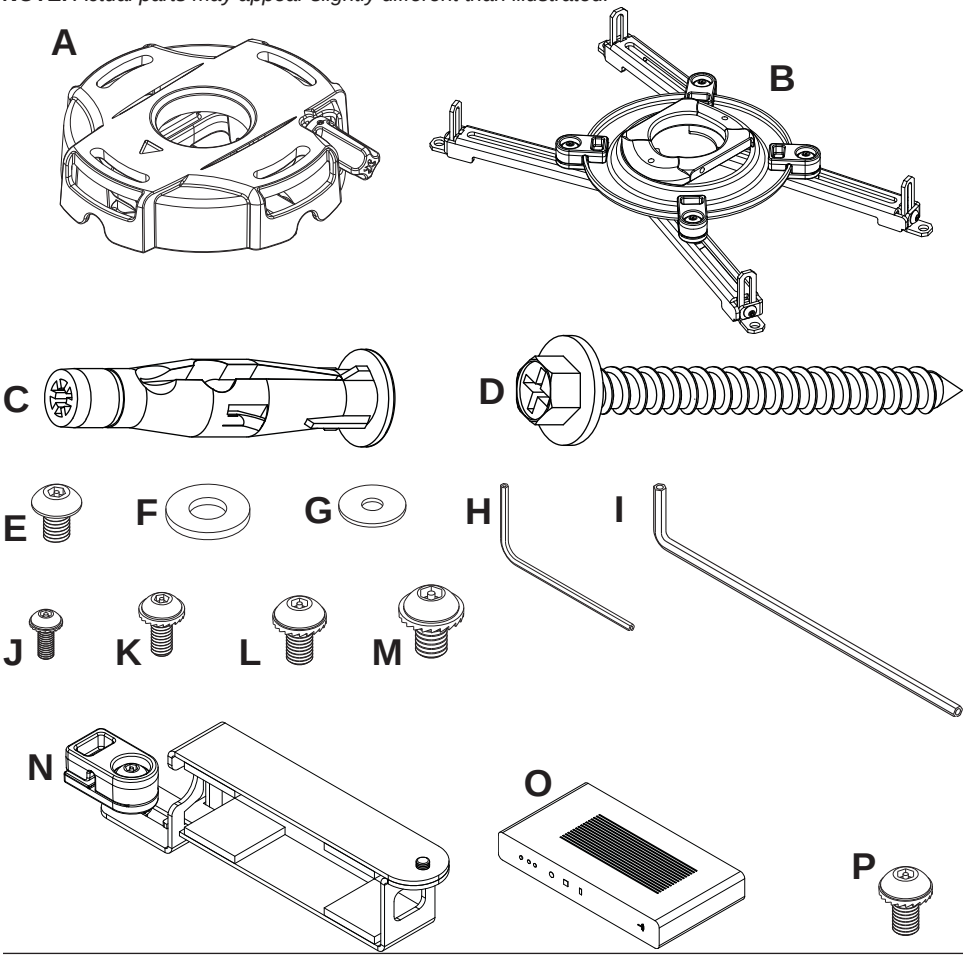
Before you start check the parts list to insure all of the parts shown are included.

Parts List

	Description	Qty.	WL-PRG-UNV-200 Part #
A	projector mount assembly	1	054-1171
B	adapter plate	1	055-1938
C	concrete anchor	2	590-0320
D	#14 x 2-1/2" phillips hex head wood screw	2	5S1-015-C03
E	#10-32 x 1/4" socket pin screw	1	520-1196
F	1/4" flat washer	2	540-1078
G	#6 flat washer x 1/2" OD	4	540-1025
H	2 mm security allen wrench	2	560-1097
I	4 mm security allen wrench	2	560-9646
J	M3 x 8 mm serrated washer head socket pin screw	4	510-1004
K	M4 x 10 mm serrated washer head socket pin screw	4	510-1060
L	M5 x 10 mm serrated washer head socket pin screw	4	510-1126
M	M6 x 10 mm serrated washer head socket pin screw	4	510-1066
N	wireless mount	1	120-1211
O	wireless receiver	1	180-1203
P	10-32 x 1/4 serrated washer head socket pin screw	1	510-1056

NOTE: *Actual parts may appear slightly different than illustrated.*



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Additional Wireless Components

wireless transmitter (1)
(180-1202)

vga to rca adapter (1)
(180-1006)

plastic stand (1)
(180-1205)

remote (1)
(180-1207)

ir flasher (1)
(180-1009)

instruction sheet (1)
(180-9023)

12v power adapter (1)
(180-1004)

hdmi cable (2)
(600-0234)

install guide (1)
(LIT-0905)

IR extender (1)
(180-0029)

3v battery (1)
(180-0008)

Installation to Extension Column/Ceiling Plate

1 **NOTE:** Refer to accompanying instructions with ceiling plates (sold separately) for installing these models to ceiling.

Screw projector mount assembly (**A**) onto extension column as shown in **figure 1.1**.

Tighten swivel stop screw against extension column, flush mount tube or reducer using 4mm security allen wrench (**I**) as shown in **figure 1.2**.

NOTE: Swivel stop screw is used to jam against threads of extension column, flush mount tube or reducer to prevent any excess movement of projector mount assembly (**A**). Do not overtighten screw; overtightening screw will damage threads making it difficult to separate products.

Skip to step 5.

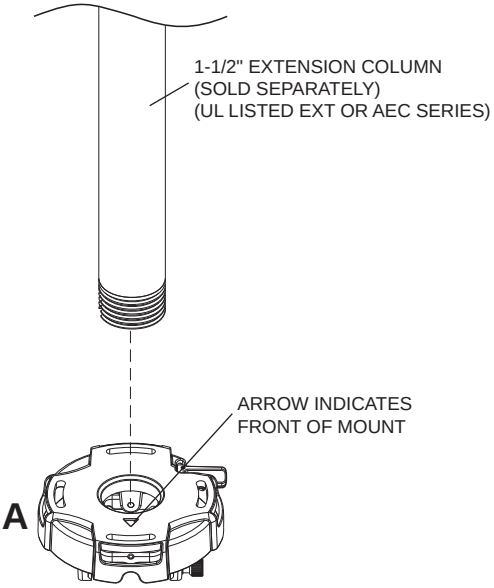


fig. 1.1

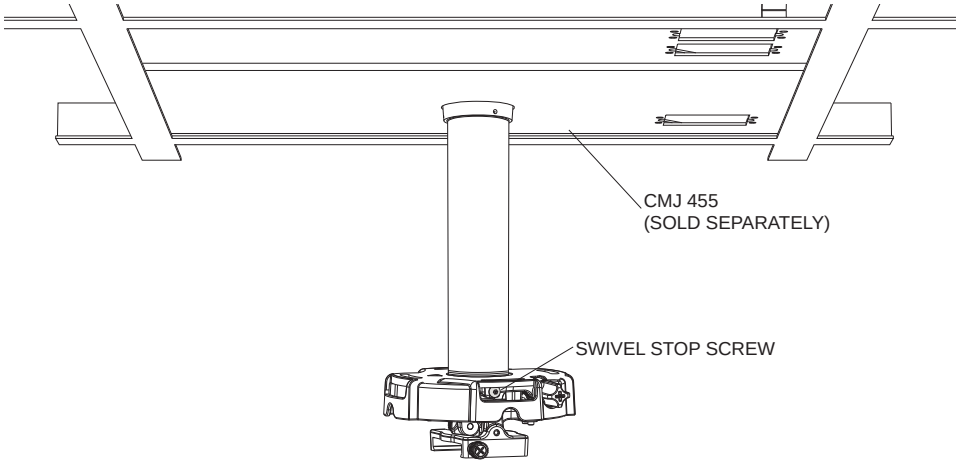


fig. 1.2

Installation to Wood Joist Ceilings

⚠ WARNING

- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Tighten wood screws so that wall plate is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).
- Make sure that mounting screws are anchored into the center of the stud. The use of an "edge to edge" stud finder is highly recommended.
- Hardware provided is for attachment of mount through standard thickness drywall or plaster into wood studs. Installers are responsible to provide hardware for other types of mounting situations.

2 Place projector mount assembly (**A**) on ceiling as a template and mark the center of the two mounting holes. Make sure that the mounting holes are in the center of the wood joist. Drill two 5/32" (4mm) dia. holes to a minimum depth of 2-1/2" (64mm). Attach projector mount assembly (**A**) with two #14 x 2-1/2" (6mm x 64mm) wood screws (**D**) and two flat washers (**F**) as shown in figure 2.1 or figure 2.2 depending on joist orientation.

Tighten wood screws (**D**) using 3/8" (10mm) socket wrench or phillips screwdriver until projector mount assembly (**A**) is firmly attached.

Skip to step 5.

fig. 2.1

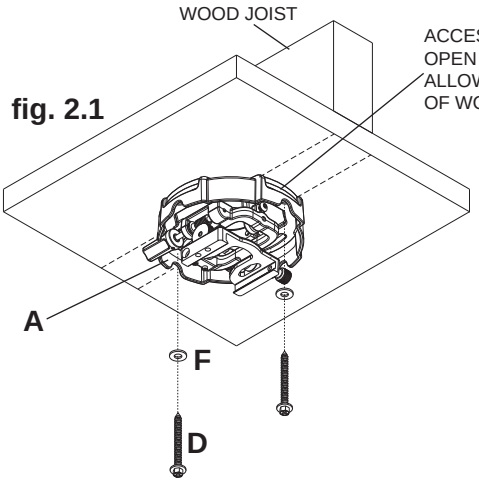
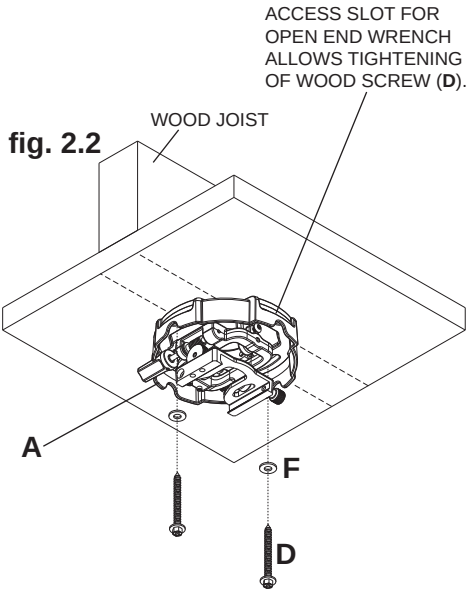


fig. 2.2



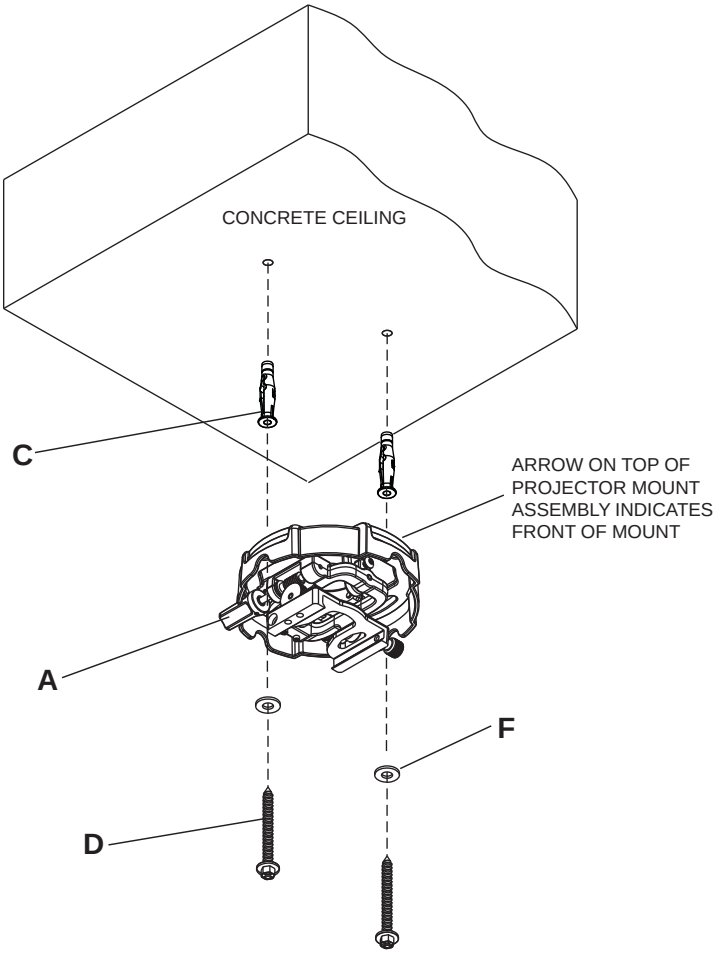
Installation to Concrete Ceilings

⚠ WARNING

- Concrete must be 2000 psi density minimum. Lighter density concrete may not hold concrete anchor.
- Make sure that the wall will safely support four times the combined load of the equipment and all attached hardware and components.

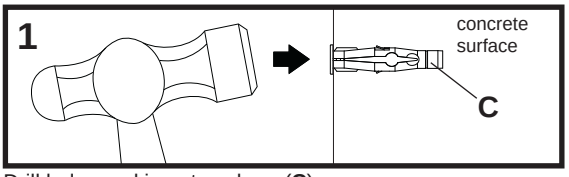
3 Place projector mount assembly (**A**) on ceiling as a template and mark the center of the two mounting holes. Drill two 5/16" (8mm) dia. holes to a minimum depth of 2-1/2" (64mm). Attach projector mount assembly (**A**) using two concrete anchors (**C**), two flat washers (**F**), and two #14 x 2-1/2" wood screws (**D**) as shown. **NOTE:** Mounting slots on projector mount assembly allow for 30° (±15°) of rotation before fully securing wood screw. Tighten wood screws (**D**) using 3/8" (10mm) socket wrench, phillips screwdriver or 10mm open end wrench until projector mount assembly (**A**) is firmly attached.

Skip to step 5.

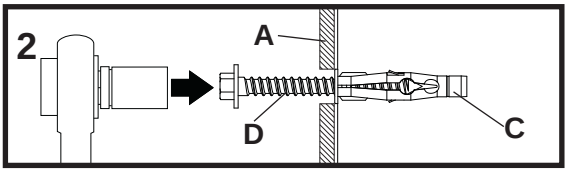


⚠ WARNING

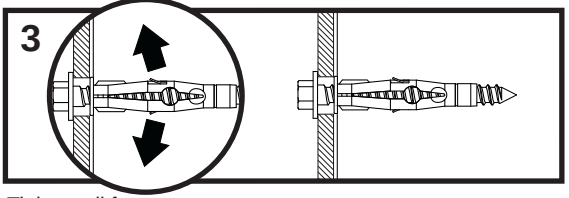
- Always attach concrete expansion anchors directly to load-bearing concrete.
- Never attach concrete expansion anchors to concrete covered with plaster, drywall, or other finishing material. If mounting to concrete surfaces covered with a finishing surface is unavoidable, the finishing surface must be counterbored as shown below. Be sure concrete anchors do not pull away from concrete when tightening screws. If plaster/drywall is thicker than 5/8" (16mm), custom fasteners must be supplied by installer.
- Tighten screws so that projector mount is firmly attached, but do not overtighten. Overtightening can damage screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).



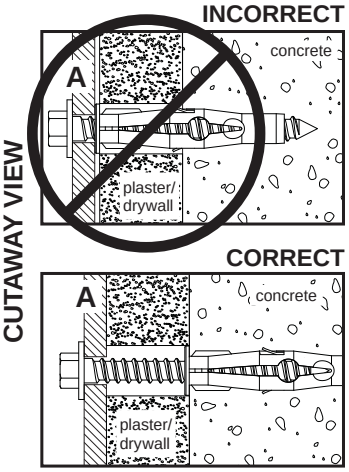
Drill holes and insert anchors (**C**).



Place plate (**A**) over anchors (**C**) and secure with screws (**D**).



Tighten all fasteners.



Installation to Threaded Rod

(Professional installation only)

4 Thread two 1/4-20 hex thin nylon-insert locknuts (not included) on two 1/4-20 threaded rods (not included) to the desired height of projector mount assembly. Attach projector mount assembly (**A**) to the two 1/4-20 threaded rods using two 1/4-20 hex thin nylon-insert locknuts as shown in **figure 4.1** or **figure 4.2**.

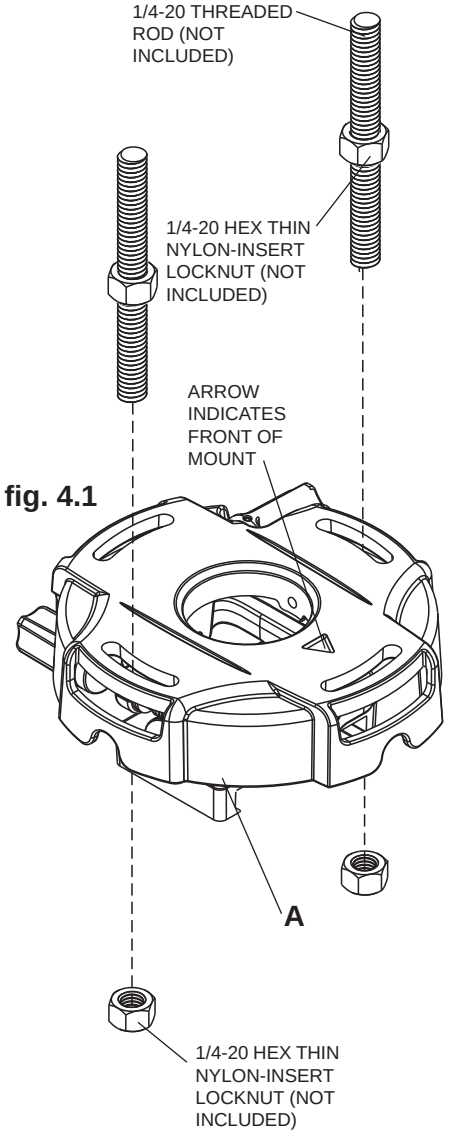

1/4-20 THREADED ROD (NOT INCLUDED)
1/4-20 HEX THIN NYLON-INSERT LOCKNUT (NOT INCLUDED)
ARROW INDICATES FRONT OF MOUNT
A
1/4-20 HEX THIN NYLON-INSERT LOCKNUT (NOT INCLUDED)

fig. 4.1

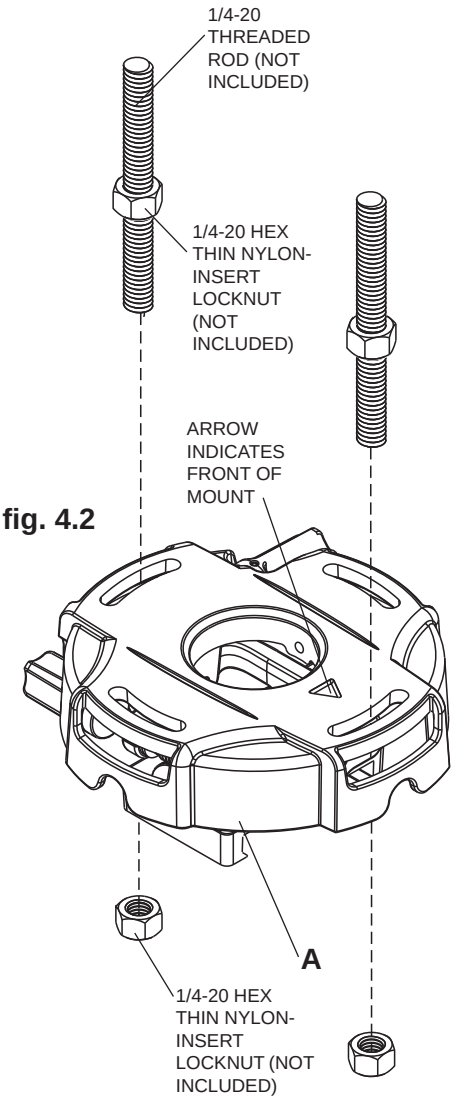

1/4-20 THREADED ROD (NOT INCLUDED)
1/4-20 HEX THIN NYLON-INSERT LOCKNUT (NOT INCLUDED)
ARROW INDICATES FRONT OF MOUNT
A
1/4-20 HEX THIN NYLON-INSERT LOCKNUT (NOT INCLUDED)

fig. 4.2

Attaching Adapter Plate to Projector

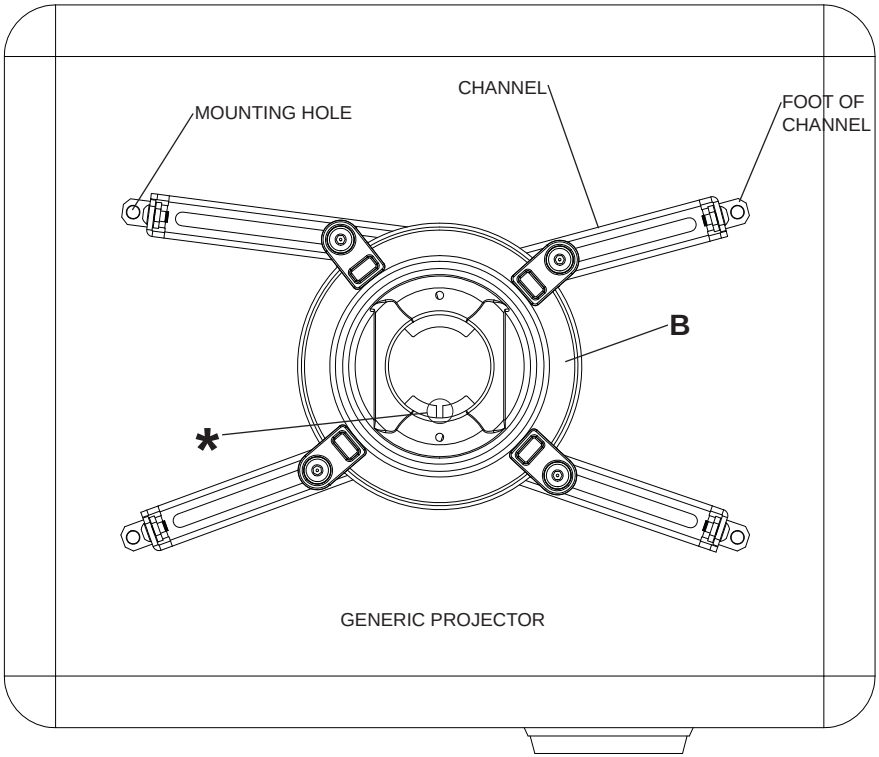
5 **NOTE:** The projector you are installing may differ in appearance from the sample illustrated below.

Place projector upside down. Locate adapter plate (**B**) with notch facing forward as close to projector center of gravity as possible without covering any mounting holes. Loosen channels with 4mm security allen wrench (**I**), and **if there are only three mounting holes remove fourth channel**. Using one channel for each mounting hole, position feet of channels over mounting holes as shown below. **IMPORTANT**: If projector does not have at least three mounting holes, do not use this adapter plate.

NOTE: Some projectors have feet which can be removed and the corresponding threaded insert can be used for a mounting hole.

NOTE: Once channels are in position retighten fasteners.

*Notch indicates front of projector.



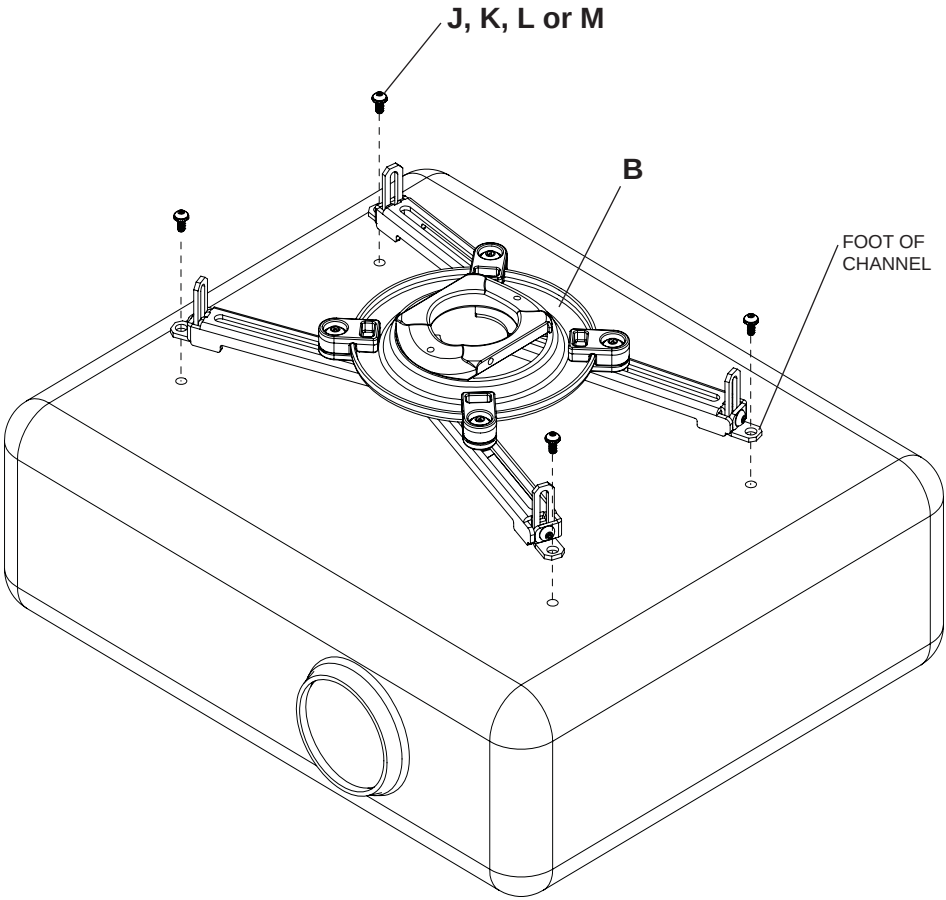
6 Attach adapter plate (**B**) to projector using one screw (**J, K, L or M**) for each channel as shown below. Tighten all screws, while keeping the center of gravity. Be sure that adapter plate (**B**) is straight. Adjust the feet of the channels to keep the adapter plate level. Tighten all screws with 4mm security allen wrench (**I**) while keeping the center of gravity. If M3 screws (**J**) are used, tighten using 2mm security allen wrench (**H**).

NOTE: Projectors will require different size screws for mounting. Use a combination of screws (**J, K, L or M**) and foot adjustment that will result in channels of adapter plate (**B**) fitting tightly against projector. **IMPORTANT**: In order to properly engage the threads in the mounting holes, the screw must be turned at least 3 full turns.

NOTE: If using screw (**J**), place washer (**G**) between screw (**J**) and foot of channel.

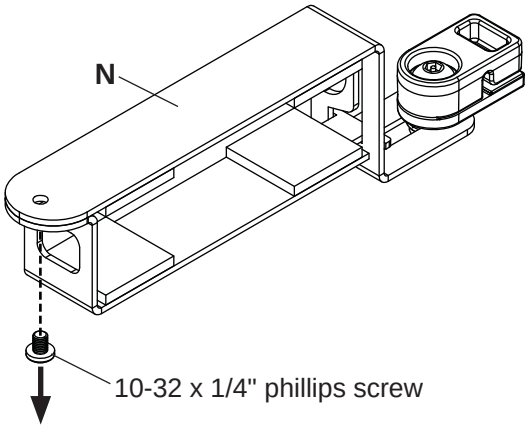
CAUTION

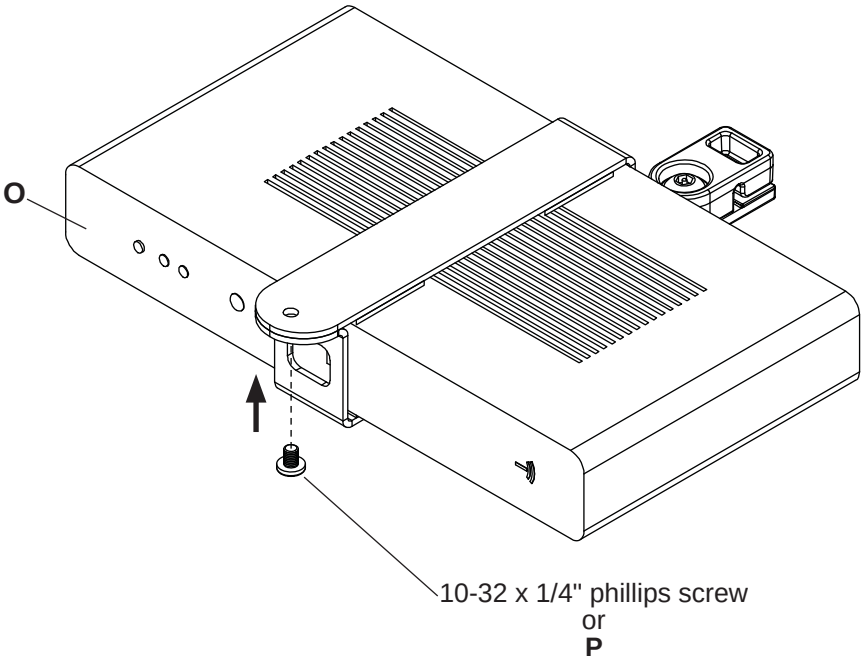
- It is the responsibility of the installer to ensure that the projector is properly ventilated. Feet of channels are used to raise the mount off the projector surface.



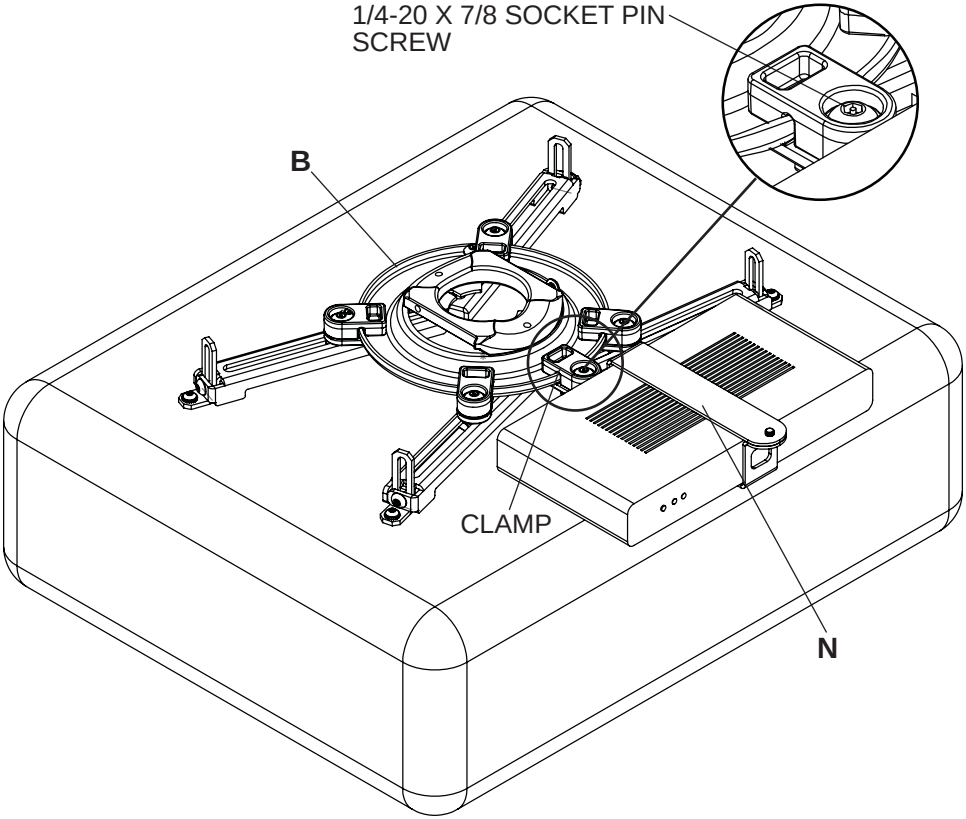
7 Remove 10-32 x 1/4" screw from wireless mount (**N**). Position wireless receiver (**O**) in wireless mount. Secure in place by reinserting 10-32 x 1/4" phillips screw.

For security applications, install 10-32 x 1/4 serrated washer head socket pin screw (**P**) in place of the 10-32 x 1/4" phillips screw and secure using 4mm security allen wrench (**I**).

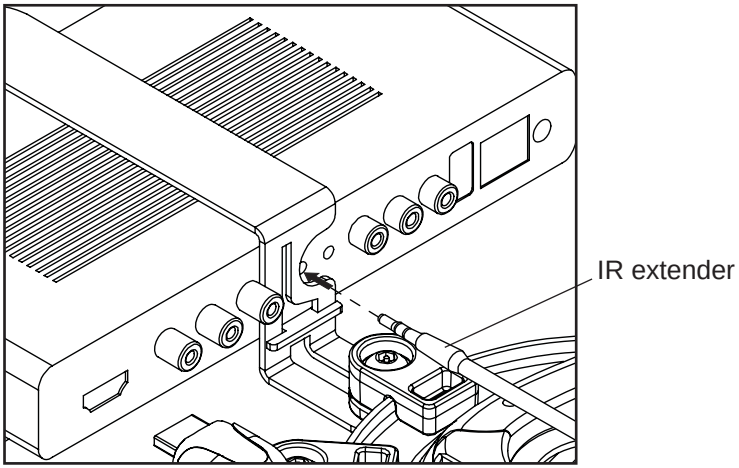




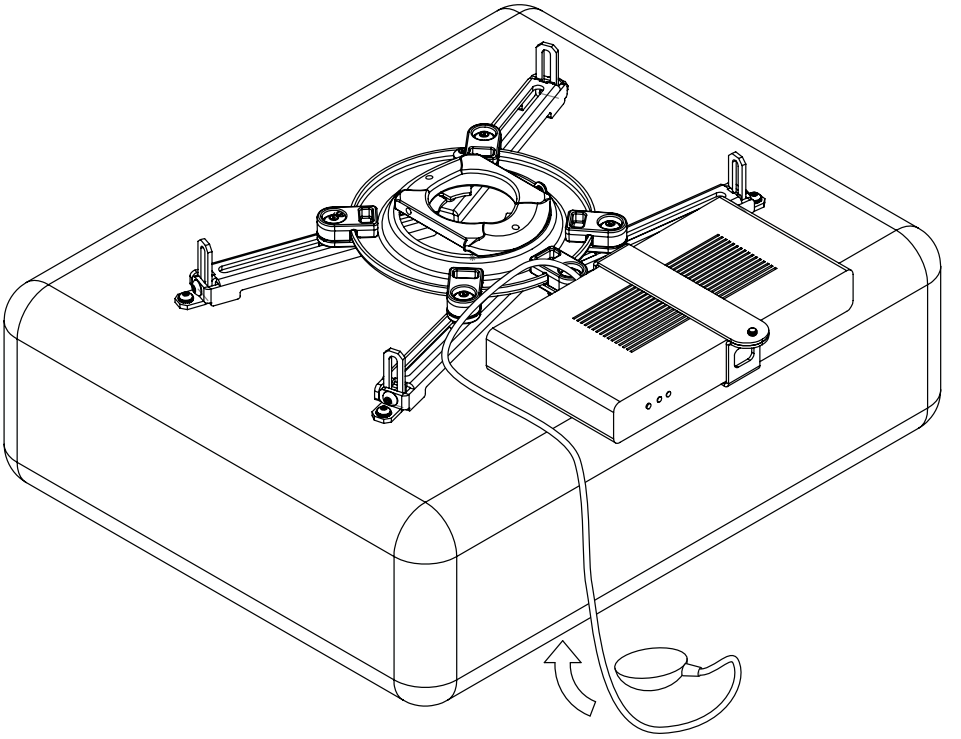
8 Loosen the 1/4-20 x 7/8 socket pin screw on the clamp of wireless mount (**N**). Position the clamp of wireless mount (**N**) to your desired location on the adapter plate (**B**) . Tighten the 1/4-20 x 7/8 socket pin screw.



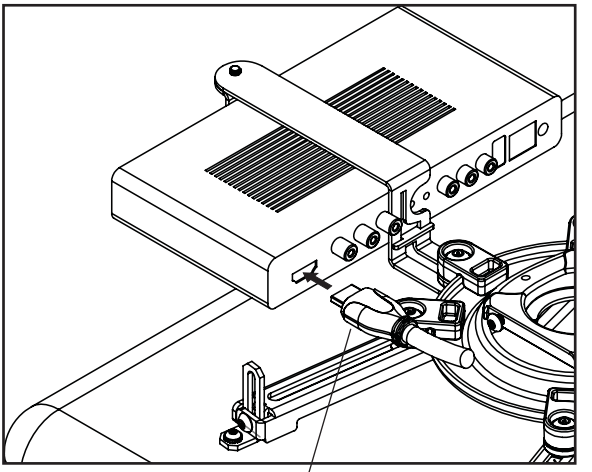
9 Plug the IR extender into the wireless receiver (labeled IR-IN).



10 Remove the adhesive backing from the IR extender and mount to the bottom of the projector so that it is in the line of sight of any possible remote use.



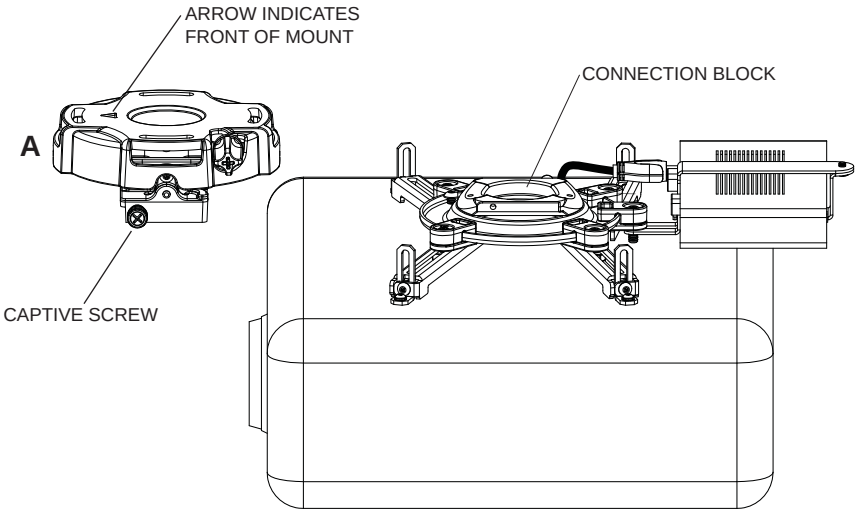
11 Plug the component cable(s) from your projector (HDMI shown) into the wireless receiver.



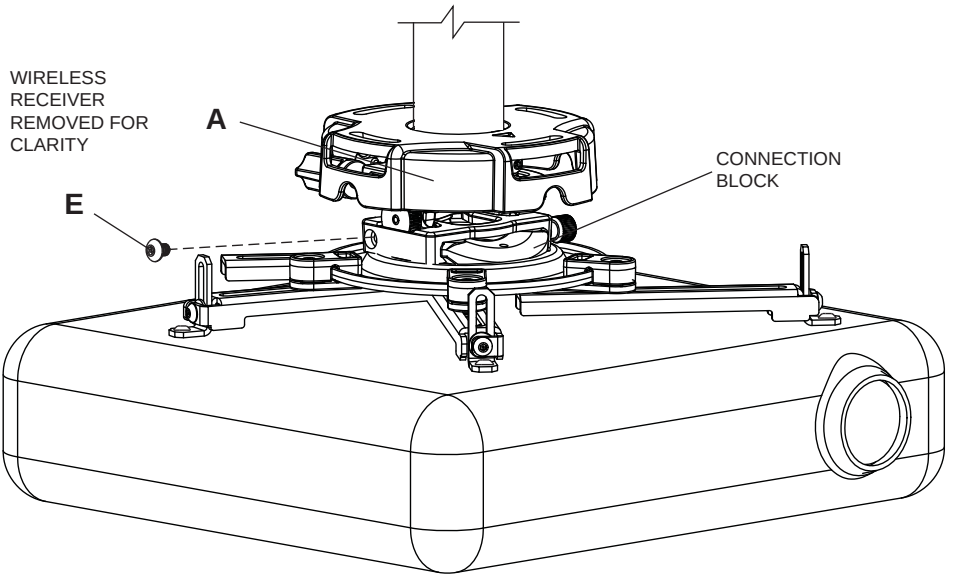
⚠ WARNING

- Always use an assistant or mechanical lifting equipment to safely lift and position the projector.

12 Slide connection block with projector into projector mount assembly (**A**) as shown. Push in and tighten captive screw to secure projector to projector mount assembly (**A**).



13 **IMPORTANT**: For security installations, insert one #10-32 x 1/4" socket pin screw (**E**) through projector mount assembly (**A**) and into connection block as shown. Tighten screw with 4mm security allen wrench (**I**).



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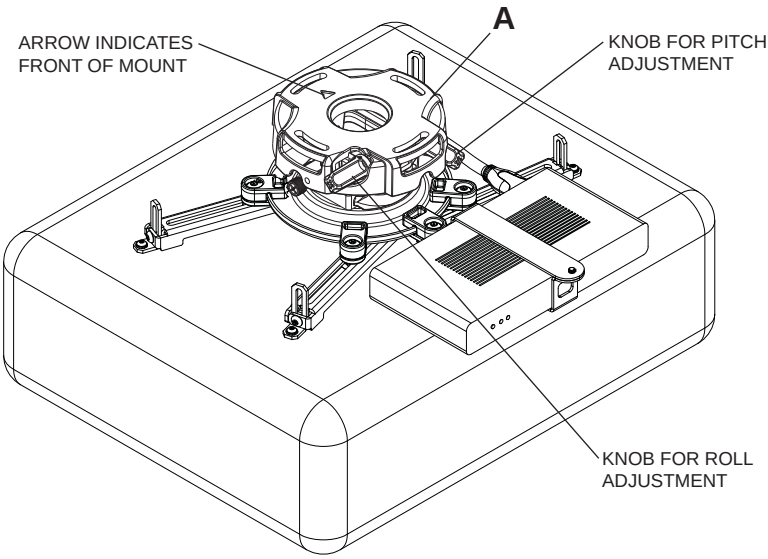
Projector Alignment

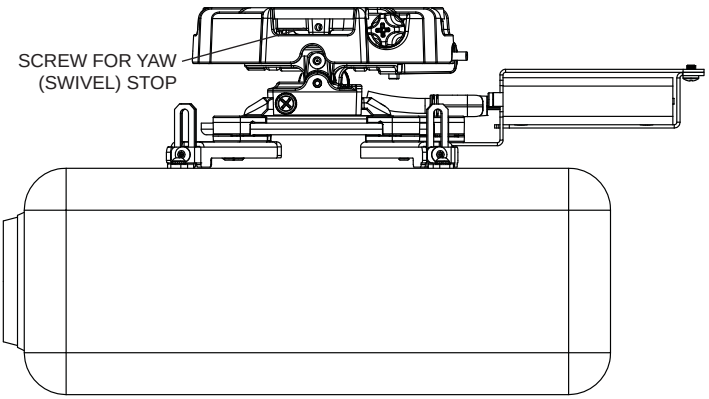
14 **To adjust yaw (swivel) for threaded rod mounting applications**: Loosen locknuts for threaded rods (refer to step four) until projector mount can be rotated. Rotate mount to desired position and retighten locknuts.

To adjust yaw (swivel) for extension column applications: Loosen screw on projector mount assembly (**A**) indicated below until projector mount can be rotated. Rotate mount to desired position and retighten screw.

To adjust pitch (forward and backward tilt): Turn knob on back of mount as shown below. Pull knob out and turn by hand for easy adjustment or insert #2 phillips screwdriver in end of knob and turn.

To adjust roll (side to side tilt): Turn knob on side of mount as shown below. Pull knob out and turn by hand for easy adjustment or insert #2 phillips screwdriver in end of knob and turn.



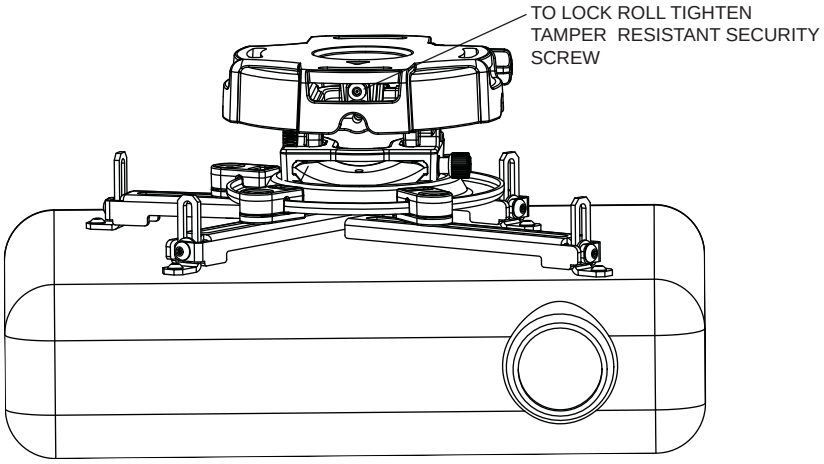


15 **To prevent tampering with the pitch and roll adjustments**: Tighten the two tamper resistant security screws on the projector mount assembly using 4mm security allen wrench (**I**) to lock the pitch and roll adjustments as shown below.

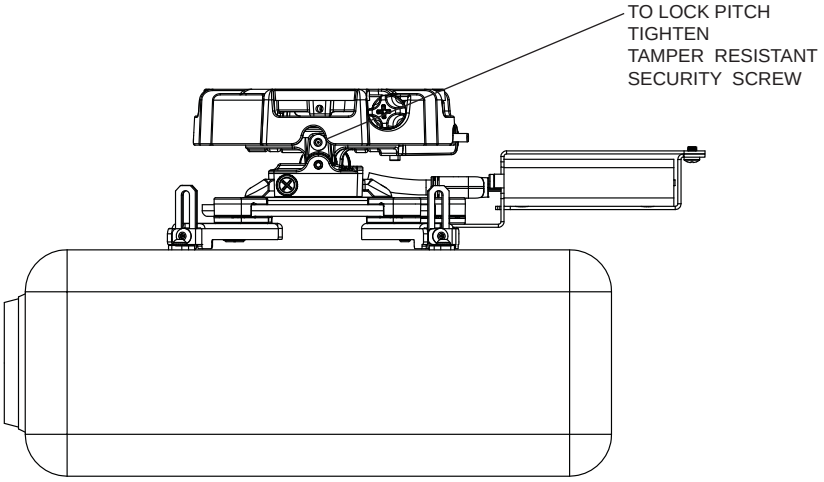
NOTE: Tighten screws firmly, but do not overtighten. Overtightening can damage the mount.

⚠ WARNING

- Do not adjust pitch or roll while tamper resistant security screws are fully engaged.
- Loosen the two tamper resistant security screws one complete turn before adjusting the projector mount assembly or damage may occur.

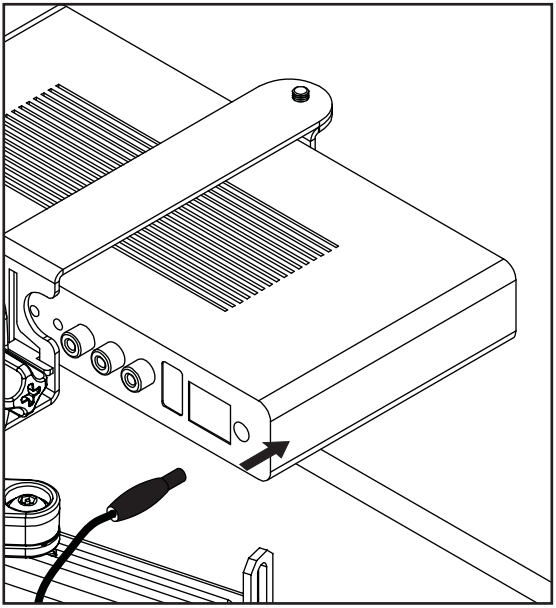


FRONT VIEW



SIDE VIEW

16 Plug the end of the wireless receiver power adapter into the input port marked **DC** on the wireless receiver as shown. Plug the other end into your power source.



17 To complete the installation of your wireless projector, please refer to the HD Flow™ User's Manual and the HD Flow™ Install Guide included.

PRG Series Projector Mount Accessories

Ceiling Plates

Truss Ceiling Adapter

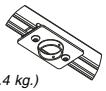
Model: ACC 557*

Max Load: *250 lbs. (113.4 kg.)*

Color: *Black*

- Attaches to a square, round, rectangular, or I-Beam truss up to 3" in diameter

Unistrut® Adapter



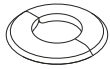
Model: ACC 550

Max Load: *250 lbs. (113.4 kg.)*

Color: *Black*

- Designed for use with 1 5/8" x 1 5/8" 12 gauge Unistrut

Escutcheon Ring



Model: ACC 640

- Covers hole where extension column passes through ceiling
- Hinged ring wraps around extension column
- Included with CMJ 500

New!

Lightweight Cathedral Ceiling Plate

Model: ACC 912*

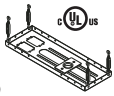
Max Load: *60 lbs. (27.2 kg.)*

Color: *Black*

- Designed specifically for projectors
- Allows a projector to be mounted on an angled ceiling

New!

Lightweight Adjustable Suspended Ceiling Kit



Model: CMJ 500

Max Load: *60 lbs. (27.2 kg.)*

Color: *White*

- Mounts above 2' x 4' or 2' x 2' false ceiling tile
- Includes tie wire supports, flush mount tube, and offers two knockout panels for outlet boxes
- Offers unlimited adjustment for projector placement

Round Ceiling Plate

Model:
ACC570(S)(W)

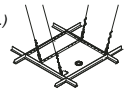
Color: *Black, silver or white*

Max Load: *150 lb (68 kg)*

Ship Weight: *1.7 lb (.8 kg)*

- Designed for finished or structural ceilings (wood or concrete)
- Features a cord management

Lightweight Suspended Ceiling Kit



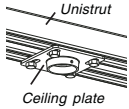
Model: CMJ 455

Max Load: *50 lbs. (22.7 kg.)*

Color: *White*

- Five different projector mount attachment points
- Includes tie wire supports, flush mount tube, and offers two knockout panels for outlet boxes
- May either **replace** a 2' x 2' false ceiling tile or mount **above** an existing 2' x 2' or 2' x 4' ceiling tile

Unistrut or Structural Ceiling Plates



Models:
CMJ 300*, CMJ 310*

Max Load:
250 lbs. (113.4 kg.)

Color: *Black*

- CMJ 300 is a 4" x 4" ceiling plate
- CMJ 310 is a 8" x 8" ceiling plate
- Designed for a Unistrut ceiling (1 5/8" x 1 5/8" 12 gauge Unistrut) or a solid structural ceiling (mounting hardware not included)

Anti-Vibration Ceiling Plates

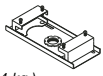
Models:
ACC 840*, ACC 845*

Max Load: *60 lbs. (27.2 kg.)*

Color: *Black*

- ACC 840 was designed for a structural ceiling (wood only)
- ACC 845 was designed for a Unistrut ceiling (1 5/8" x 1 5/8" 12 gauge Unistrut)
- Reduces unwanted vibrations that may cause internal damage to the equipment and/or cause the screen image to vibrate
- Features two cord management access holes
- Patent pending

I-Beam Clamps



Models:
ACC 558, ACC 559

Max Load: *250 lbs. (113.4 kg.)*

Color: *Black*

- ACC 558 clamps onto 4"-8" I-Beam
- ACC 559 clamps onto 7"-12" I-Beam

Accessory Pack for CMJ 455

Model: ACC 455*

This pack includes 4 hanger brackets and 4 hanger clamps for additional stability. For use with model CMJ 455.

*** = Not UL Listed**

PRG Series Projector Mount Accessories

Cord Management

Cord Wrap

MODELS: ACC 852(W)(S)*

COLOR: *Black, White, or Silver*

- Includes, four, 2' sections
- Designed to externally route cords along the outside of an 1/2" extension column
- Sections can be stacked to create longer lengths or cut to desired length

Extension Columns

Fixed Length 1 1/2" Extension Columns

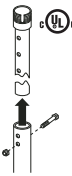
COLOR: *Black*

MODEL	Drop Length	Ship Weight
EXT 006	8" *(20 cm)*	2.5 lbs *(1.13 kg)*
EXT 018	20" *(51 cm)*	5 lbs *(2.27 kg)*
EXT 101	14" *(36 cm)*	3.5 lbs *(1.59 kg)*
EXT 102	26" *(66 cm)*	6 lbs *(2.72 kg)*
EXT 103	38" *(97 cm)*	9.25 lbs *(4.2 kg)*
EXT 104	50" *(127cm)*	12 lbs *(5.44 kg)*
EXT 105	62" *(158 cm)*	14.75 lbs *(6.69 kg)*
EXT 106	74" *(188 cm)*	18 lbs *(8.16 kg)*
EXT 107	86" *(219 cm)*	20.75 lbs *(9.41 kg)*
EXT 108	98" *(249 cm)*	23.25 lbs *(10.55 kg)*
EXT 109	110" *(279 cm)*	26.5 lbs *(12.02 kg)*
EXT 110	122" *(310 cm)*	29 lbs *(13.15 kg)*

Adjustable Length 1 1/2" Extension Columns

COLOR: *Black*

MODEL	Drop Length	Ship Weight
ADJ 006009	8"-11"	4 lbs. *(1.81 kg)*
ADJ 012018	14"-20"	4.75 lbs. *(2.15 kg)*
ADJ 018024	20"-26"	6.25 lbs. *(2.83 kg)*
ADJ 0203	26"-38"	8 lbs. *(3.63 kg)*
ADJ 0305	38"-62"	13.5 lbs. *(6.12 kg)*
ADJ 0406	50"-74"	16.25 lbs. *(7.37 kg)*
ADJ 0507	62"-86"	18.5 lbs. *(8.39 kg)*
ADJ 0608	74"-98"	21.75 lbs. *(9.87 kg)*
ADJ 0709	86"-110"	24.5 lbs. *(11.11 kg)*
ADJ 0810	98"-122"	27 lbs. *(12.25 kg)*
ADJ 0911	110"-134"	29 lbs. *(13.15 kg)*
ADJ 1012	122"-146"	31 lbs. *(14.06 kg)*

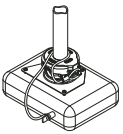


Security Accessories

Armor Lock™ Plus Security Cables

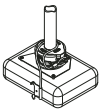
MODEL: ACC 020*

- With security lock
- For use with projectors that have a built-in security slot



MODEL: ACC 021*

- With 1/4" security cable and fasteners
- Includes adhesive for non-fastener applica tions



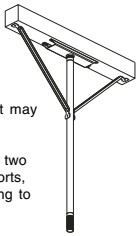
Additional Projector Mount Accessories

Extension Column Stabilizer Kit

MODEL: ACC 050*

COLOR: *Black*

- Can be used to reduce unwanted swaying that may occur with extension column installations
- Includes a hose clamp, two stabilizer column supports, & hardware for mounting to wood joists
- For use with extension columns over 21"



ALLIGATOR® Concrete Anchors

MODELS: ACC 203, 204

- ACC 203 contains 3 anchors
- ACC 204 contains 4 anchors
- Used for attachment to concrete, concrete block, or brick
- Used in conjunction with wood screws (supplied with projector mount and/or ceiling plate)
- Expands in length and binds to the contours of the hole and the screw

Extension Column with Cord Management

MODEL: ACC800, ACC850(S)

COLOR: ACC800 *Black*

ACC850 *Black or Silver*

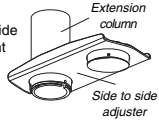
- 1-1/2" access hole for internal cord management
- Unit has 1-1/2"-11.5 NPT fitting for attachment of extension column
- Security screws included
- ACC800: One male and one female connection to provide internal cord management between extension column and mount or ceiling plate
- ACC850: Two female connectors to join two extension columns to create maximum length of 20'

Side-To-Side Adjuster

MODEL: ACC 830*

COLOR: *Black*

- Provides 4" of radial adjustment side to side
- Includes Flush Mount Tube, EXT 002



Extension Column Connector

MODEL: ACC 109*

COLOR: *Black*

- Can be used to join two 1-1/2" extension columns to create a maximum length of 20'
- Secures to columns with Armor Lock™ Security screws

*** = Not UL Listed**

ISSUED: 08-24-12 SHEET #: 180-9035-3 11-08-12

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LIMITED WARRANTY

Peerless Industries, Inc. ("Peerless-AV®") warrants to original end-users of Peerless-AV® products that Peerless-AV® products will be free from defects in material and workmanship, under normal use, for the periods listed below, from the date of purchase by the original end-user. At its option, Peerless-AV® will repair or replace with new or refurbished products or parts, or refund the purchase price of any Peerless-AV® product which fails to conform with this warranty.

In no event shall the duration of any implied warranty of merchantability or fitness for a particular purpose be longer than the period of the applicable express warranty set forth above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty does not cover damage caused by (a) service or repairs by the customer or a person who is not authorized for such service or repairs by Peerless-AV®, (b) the failure to utilize proper packing when returning the product, (c) incorrect installation or the failure to follow Peerless-AV®'s instructions or warnings when installing, using or storing the product, or (d) misuse or accident, in transit or otherwise, including in cases of third-party actions and force majeure. This warranty also does not cover corrosion or rust resulting from damaged, scratched or chipped paint or other surfaces.

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This warranty gives specific legal rights, and you may also have other rights which vary from state to state.

Product	Warranty Period
Mounts	5 years
Furniture	1 year
Cables	25 years
Cleaning Products	1 year
Electronic Products and components	1 year

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